0570

Page 1 of 7





OIPE

RAW SEQUENCE LISTING

DATE: 05/28/2002

PATENT APPLICATION: US/10/054,789

TIME: 09:46:37

Input Set : A:\0020-4954P.ST25.txt

Output Set: N:\CRF3\05282002\J054789.raw

ENTERED

3 <110> APPLICANT: Kazutomo Inoue et al. 5 <120> TITLE OF INVENTION: METHOD FOR INDUCING DIFFERENTIATION OF EMBRYONIC STEM CELLS INTO FUNCTIONING CELLS 8 <130> FILE REFERENCE: 0020-4954P 10 <140> CURRENT APPLICATION NUMBER: US 10/054,789 11 <141> CURRENT FILING DATE: 2002-01-25 13 <160> NUMBER OF SEQ ID NOS: 28 15 <210> SEQ ID NO: 1 16 <211> LENGTH: 19 17 <212> TYPE: DNA 18 <213> ORGANISM: Artificial Sequence 20 <220> FEATURE: 21 <223> OTHER INFORMATION: Oligonucleotide Primer 23 <400> SEQUENCE: 1 24 atggatgacg atatcgctg 19 26 <210> SEQ ID NO: 2 27 <211> LENGTH: 19 28 <212> TYPE: DNA 29 <213> ORGANISM: Artificial Sequence 31 <220> FEATURE: 32 <223> OTHER INFORMATION: Oligonucleotide Primer 34 <400> SEQUENCE: 2 35 atgaggtagt ctgtcaggt 19 37 <210> SEQ ID NO: 3 38 <211> LENGTH: 20 39 <212> TYPE: DNA 40 <213> ORGANISM: Artificial Sequence 42 <220> FEATURE: 43 <223> OTHER INFORMATION: Oligonucleotide Primer 45 <400> SEQUENCE: 3 46 ggagtgtcgc ttagaggtgc 20 48 <210> SEQ ID NO: 4 49 <211> LENGTH: 20 50 <212> TYPE: DNA 51 <213> ORGANISM: Artificial Sequence 53 <220> FEATURE: 54 <223> OTHER INFORMATION: Oligonucleotide Primer 56 <400> SEQUENCE: 4 57 tecagaaage caagagaage 20 59 <210> SEO ID NO: 5 60 <211> LENGTH: 22 61 <212> TYPE: DNA 62 <213> ORGANISM: Artificial Sequence

Input Set: A:\0020-4954P.ST25.txt
Output Set: N:\CRF3\05282002\J054789.raw

64 <220> FEATURE: 65 <223> OTHER INFORMATION: Oligonucleotide Primer 67 <400> SEQUENCE: 5 68 tagtgaccag ctataatcag ag 22 70 <210> SEQ ID NO: 6 71 <211> LENGTH: 20 72 <212> TYPE: DNA 73 <213> ORGANISM: Artificial Sequence 75 <220> FEATURE: 76 <223> OTHER INFORMATION: Oligonucleotide Primer 78 <400> SEQUENCE: 6 79 acgccaaggt ctgaaggtcc 20 81 <210> SEQ ID NO: 7 82 <211> LENGTH: 19 83 <212> TYPE: DNA 84 <213> ORGANISM: Artificial Sequence 86 <220> FEATURE: 87 <223> OTHER INFORMATION: Oligonucleotide Primer 89 <400> SEQUENCE: 7 90 ccctgctggc cctgctctt 19 92 <210> SEQ ID NO: 8 93 <211> LENGTH: 20 94 <212> TYPE: DNA 95 <213> ORGANISM: Artificial Sequence 97 <220> FEATURE: 98 <223> OTHER INFORMATION: Oligonucleotide Primer 100 <400> SEQUENCE: 8 101 aggtctgaag gtcacctgct 20 103 <210> SEQ ID NO: 9 104 <211> LENGTH: 19 105 <212> TYPE: DNA 106 <213> ORGANISM: Artificial Sequence 108 <220> FEATURE: 109 <223> OTHER INFORMATION: Oligonucleotide Primer 111 <400> SEQUENCE: 9 112 tcatgacgtt tggcaagtt 19 114 <210> SEQ ID NO: 10 115 <211> LENGTH: 20 116 <212> TYPE: DNA 117 <213> ORGANISM: Artificial Sequence 119 <220> FEATURE: 120 <223> OTHER INFORMATION: Oligonucleotide Primer 122 <400> SEQUENCE: 10 123 cagaggagaa ccccagatca 20 125 <210> SEQ ID NO: 11 126 <211> LENGTH: 20 127 <212> TYPE: DNA

130 <220> FEATURE:

128 <213> ORGANISM: Artificial Sequence

Input Set : A:\0020-4954P.ST25.txt
Output Set: N:\CRF3\05282002\J054789.raw

131 <223> OTHER INFORMATION: Oligonucleotide Primer 133 <400> SEQUENCE: 11 134 gattccctat ttggatcccc 20 136 <210> SEQ ID NO: 12 137 <211> LENGTH: 20 138 <212> TYPE: DNA 139 <213> ORGANISM: Artificial Sequence 141 <220> FEATURE: 142 <223> OTHER INFORMATION: Oligonucleotide Primer 144 <400> SEQUENCE: 12 145 ctctctgtgg cactgaacca 20 147 <210> SEQ ID NO: 13 148 <211> LENGTH: 19 149 <212> TYPE: DNA 150 <213> ORGANISM: Artificial Sequence 152 <220> FEATURE: 153 <223> OTHER INFORMATION: Oligonucleotide Primer 155 <400> SEQUENCE: 13 156 ccacccagtt tacaagctc 19 158 <210> SEQ ID NO: 14 159 <211> LENGTH: 20 160 <212> TYPE: DNA 161 <213> ORGANISM: Artificial Sequence 163 <220> FEATURE: 164 <223> OTHER INFORMATION: Oligonucleotide Primer 166 <400> SEQUENCE: 14 167 tgtaggcagt acgggtcctc 20 169 <210> SEQ ID NO: 15 170 <211> LENGTH: 20 171 <212> TYPE: DNA 172 <213> ORGANISM: Artificial Sequence 174 <220> FEATURE: 175 <223> OTHER INFORMATION: Oligonucleotide Primer 177 <400> SEQUENCE: 15 178 tgtaggcagt acgggtcctc 20 180 <210> SEQ ID NO: 16 181 <211> LENGTH: 20 182 <212> TYPE: DNA 183 <213> ORGANISM: Artificial Sequence 185 <220> FEATURE: 186 <223> OTHER INFORMATION: Oligonucleotide Primer 188 <400> SEQUENCE: 16 189 ccacccagt ttacaagctc 20 191 <210> SEQ ID NO: 17 192 <211> LENGTH: 20 193 <212> TYPE: DNA 194 <213> ORGANISM: Artificial Sequence 196 <220> FEATURE:

197 <223> OTHER INFORMATION: Oligonucleotide Primer

Input Set : A:\0020-4954P.ST25.txt
Output Set: N:\CRF3\05282002\J054789.raw

199 <400> SEQUENCE: 17	•
200 cattgttgca ccttgtcacc	20
202 <210> SEQ ID NO: 18	
203 <211> LENGTH: 20	
204 <212> TYPE: DNA	
205 <213> ORGANISM: Artificial Sequence	
207 <220> FEATURE:	
208 <223> OTHER INFORMATION: Oligonucleotide Primer	
210 <400> SEQUENCE: 18	22
211 ttctgctgct ttccctcatt	20
213 <210> SEQ ID NO: 19	
214 <211> LENGTH: 20	
215 <212> TYPE: DNA	
216 <213> ORGANISM: Artificial Sequence	
218 <220> FEATURE:	
219 <223> OTHER INFORMATION: Oligonucleotide Primer	
221 <400> SEQUENCE: 19	
222 gcaaatgtgt gtttgatgcc	20
224 <210> SEQ ID NO: 20	
225 <211> LENGTH: 20	
226 <212> TYPE: DNA	
227 <213> ORGANISM: Artificial Sequence	
229 <220> FEATURE:	
230 <223> OTHER INFORMATION: Oligonucleotide Primer	
232 <400> SEQUENCE: 20	
233 atgaccaaac tettggaceg	20
235 <210> SEQ ID NO: 21	
236 <211> LENGTH: 18	
237 <212> TYPE: DNA	
238 <213> ORGANISM: Artificial Sequence	
240 <220> FEATURE:	
241 <223> OTHER INFORMATION: Oligonucleotide Primer	
243 <400> SEQUENCE: 21	
244 cgccgcctgt ccgcttcc	18
246 <210> SEQ ID NO: 22	
247 <211> LENGTH: 24	
248 <212> TYPE: DNA	
249 <213> ORGANISM: Artificial Sequence	
251 <220> FEATURE:	
252 <223> OTHER INFORMATION: Oligonucleotide Primer	
254 <400> SEQUENCE: 22	0.4
255 ttgggcttcc gttttctggt ttga	24
257 <210> SEQ ID NO: 23	
258 <211> LENGTH: 20	
259 <212> TYPE: DNA	
260 <213> ORGANISM: Artificial Sequence	
262 <220> FEATURE:	
263 <223> OTHER INFORMATION: Oligonucleotide Primer	
265 <400> SEQUENCE: 23	

Input Set : A:\0020-4954P.ST25.txt

Output Set: N:\CRF3\05282002\J054789.raw

266	acctgagtcc gagtctgacc	20
268	<210> SEQ ID NO: 24	
269	<211> LENGTH: 20	
270	<212> TYPE: DNA	
271	<213> ORGANISM: Artificial Sequence	
273	<220> FEATURE:	
274	<223> OTHER INFORMATION: Oligonucleotide Primer	
276	<400> SEQUENCE: 24	
	ggcaccttga gaaagcagtc	20
279	<210> SEQ ID NO: 25	
280	<211> LENGTH: 24	
281	<212> TYPE: DNA	
282	<213> ORGANISM: Artificial Sequence	
	<220> FEATURE:	
	<223> OTHER INFORMATION: Oligonucleotide Primer	
	<400> SEQUENCE: 25	
	ggcgttctct ttggaaaggt gttc	24
290	<210> SEQ ID NO: 26	
	<211> LENGTH: 20	
292	<212> TYPE: DNA	
	<213> ORGANISM: Artificial Sequence	
295	<220> FEATURE:	
	<223> OTHER INFORMATION: Oligonucleotide Primer	
	<400> SEQUENCE: 26	
	ctcgaaccac atccttctct	20
	<210> SEQ ID NO: 27	
302	<211> LENGTH: 23	
	<212> TYPE: DNA	
304	<213> ORGANISM: Artificial Sequence	
	<220> FEATURE:	
	<223> OTHER INFORMATION: Oligonucleotide Primer	
	<400> SEQUENCE: 27	
	tgaagagagc ggagaaggag atc	23
312	<210> SEQ ID NO: 28	
313	<211> LENGTH: 24	
	<212> TYPE: DNA	
	<213> ORGANISM: Artificial Sequence	
	<220> FEATURE:	
	<223> OTHER INFORMATION: Oligonucleotide Primer	
	<400> SEQUENCE: 28	
321	tctggagtta agaaatcgga gctg	24

VERIFICATION SUMMARYDATE: 05/28/2002PATENT APPLICATION: US/10/054,789TIME: 09:46:38

Input Set : A:\0020-4954P.ST25.txt

Output Set: N:\CRF3\05282002\J054789.raw